

We claim:

1. A method for creating a primary cell profile, the method comprising in vitro monitoring of primary cells from a test patient wherein said monitoring comprises  
5 studying primary cell phenotypes and dynamics selected from the group consisting of cell morphology, molecular marker expression pattern, selective activation, rolling and adhesion properties, transmigration ability, and chemotactic properties.

10 2. The method of claim 1 further comprising creating a database of primary cell profiles wherein said data base comprises a primary cell profile for at least one healthy patient and for at least one diseased patient.

15 3. A method of predicting a therapeutic outcome for a test patient having a disease, said method comprising  
a) generating a primary cell profile for the test patient by the method of claim 1;  
b) comparing the primary cell profile of the test patient with the primary cell profile of a profiled patient having the same disease and having received a therapy  
c) determining the similarities of the primary cell profiles regarding cell phenotypes and dynamics selected from the group consisting of cell morphology, molecular marker expression pattern, selective activation, rolling and adhesion properties, transmigration ability, and chemotactic properties  
20 d) determining the therapeutic outcome of the profiled patient; and  
e) correlating the therapeutic outcome of the profiled patient to predict the therapeutic outcome of the test patient based on the similarities of the primary cell profiles.

25 4. The method of claim 1 wherein the cell profile is determined using primary leukocytes.

30 5. The method of claim 1 wherein the cell profile is determined using monocytes.